Power PCB Relay PCFN Solar

- **1 pole, 26 A, 1 NO Contact**
- **contact gap > 1.5 mm**
- **200 mW hold power**
- **Ambient temperature up to 75°C, 85°C at 22 A**
- **RoHS compliant (Directive 2002/95/EC)**

F-PCFNsolar

Applications: Photovoltaic inverter

Approvals

Technical data of approved types on request

Contact data

Contact configuration	1 N/O
Contact set	single contact
Contact gap	> 1.5 mm
Rated current	26 A
Rated voltage	277 VAC
Maximum breaking capacity AC	7200 VA
Contact material	$AgSnO_2$
Mechanical endurance	$1x10^6$ cycles
Rated frequency of operation with / without load	6 / 300 min^{-1}

Contact ratings

Load	Cycles
22 A, 250 VAC, resistive, 85°C	$30x10^3$
26 A, 250 VAC, resistive, 75°C	$30x10^3$

Coil data

Rated coil voltage	12 VDC
Coil power	1.5 W [1)]
Coil insulation system according UL 1446	class F

Coil version, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power W
12	12	7.8	1.2	96±10%	1.5

All figures are given for coil without preenergization, at ambient temperature +23°C
Hold voltage ≥ 4.4 V at ambient temperature ≤ 85°C

[1)] Ambient temperature > 23°C requires reduction of coil voltage to 4.4...< 6 V after 100ms

Datasheet Rev. HC1
Issued 2008/03
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Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

Power PCB Relay PCFN Solar (Continued)

Insulation

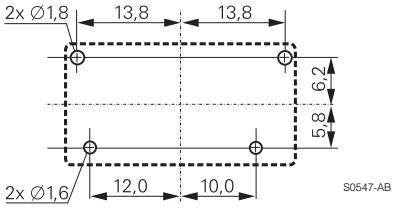
Dielectric strength coil-contact circuit	4000 V_{rms}
open contact circuit	2500 V_{rms}
Clearance / creepage coil-contact circuit	6.1 / 6.1 mm
Material group of insulation parts	III
Tracking index of relay base	PTI 175
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	basic
open contact circuit	basic
Rated insulation voltage	250 V
Pollution degree	2
Rated voltage system	277 V
Overvoltage category	III

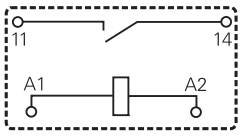
Other data

RoHS - Directive 2002/95/EC	compliant
Flammability class according to UL94	V-0
Ambient temperature range [1]	-25...+75 °C -25...+85 °C at 22 A
Operate- / release time	20 / 10 ms
Bounce time	3 ms
Vibration resistance (function)	10 g
Shock resistance (function)	10 g
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof
Mounting	pcb
Mounting position	any
Mounting distance	10 mm
Resistance to soldering heat	260°C / 5 s
Relay weight	28 g
Packaging unit	20 / 500

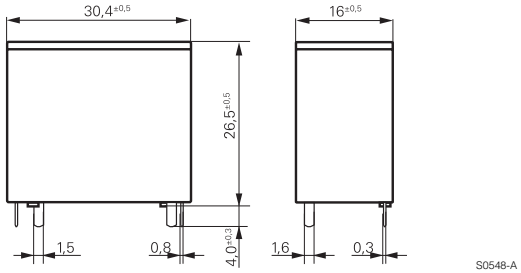
[1] Ambient temperature > 23°C requires reduction of coil voltage to 4.4...< 6 V after 100ms

PCB layout / terminal assignment
Bottom view on solder pins





Dimensions



Product key	Version	Contact configuration	Contact material	Coil	Part number
PCFN-112H2MG	PCB, flux tight	1 NO contact	$AgSnO_2$	12 VDC	1721929-1

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